KENWOOD

FM/AM TUNER

T-1001
T-1001L

INSTRUCTION MANUAL

KENWOOD CORPORATION

B60-1316-00 (E, T, M) (JA) [A]
94/12 11 10 9 8 7 6 5 4 3 2 1 93/12 11 10 9 8 7 6

Before applying power

Caution : Read this page carefully to ensure safe operation.

Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.
Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.
We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

Before applying power

Units are designed for operation as follows.

U.S.A. and Canada ..... 120 V only
U.K. and Australia ..... 240 V only
Europe (Except for U.K.) ..... 230 V only
Other countries ..... 110-120 / 220-240 V switch

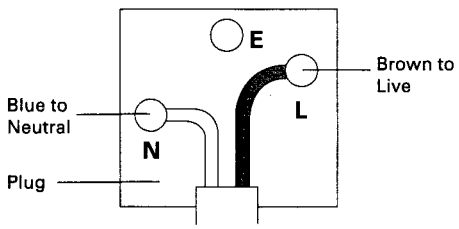
Plug connection for U.K.

The wires in this mains lead are coloured in accordance with the following code:

Blue ..... Neutral
Brown ..... Live

The wires in this mains lead must be connected to the terminals in the plug as follows:

Wire colour	**Plug terminal marking**
Blue	N or Black
Brown	L or Red



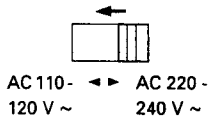
Notes:
1. Refer changing mains plug to qualified electrician if you need.
2. If a 13-amp plug is used, this must be fitted with a 13-amp fuse.
3. If a 3-pin plug with earthing contact is used, no wire must be connected to the E terminal.

AC voltage selection

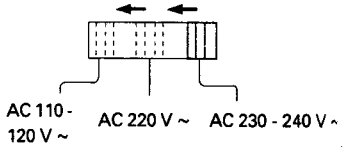
This unit operates on 110 - 120 or 220 - 240 volts AC. The AC voltage selector switch Type A or Type B on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

AC voltage selector switch

Type A



Type B



Move switch lever to match your line voltage with a small screwdriver or other pointed tool.

Note:
Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector switch.

Safety precautions

WARNING : TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.
	THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

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Features of this unit

Although this unit has the same size as mini components, the internal circuitry is designed targeting at reproducing equivalent sound to high-class components.

① Front panel made of aluminum extruded material with a thickness of 5 mm.

② The structural strength is increased to improve the sound quality by providing thicknesses of 1.6 mm for the chassis, and 1.0 mm for the rear panel and case.

③ The power supply circuitry which is particularly important in sound quality is enhanced.

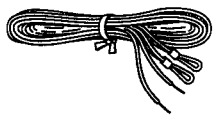
When the tuner is connected with the A-1001 amplifier through a system control cord, up to 20 broadcast stations can be preset. The preset stations can be recalled easily using the P.CALL key of the remote control unit.

RDS (Radio Data System) compatibility (for U.K. and Europe):
The RDS makes possible the PTY (Program Type Identification) search, AF (Alternative Frequencies) search, PS (Program Service name) search and CT (Clock Time) display operations.

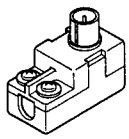
Accessories

Check that the following accessories are present.

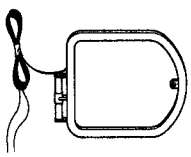
FM indoor antenna 1



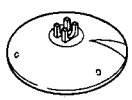
Antenna adaptor 1
(For U.K. and Europe)



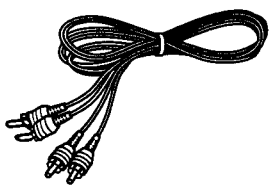
AM loop antenna 1



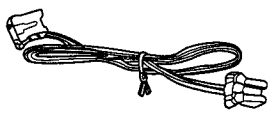
Loop antenna stand 1



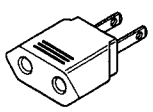
Audio cord 1



System control cord 1



AC plug adaptor 1
(Except for some areas)



For the unit with a European AC plug in areas other than Europe

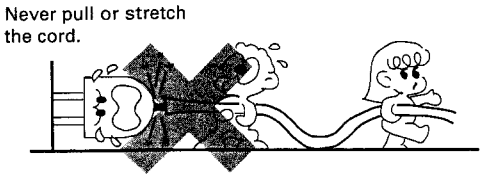
IMPORTANT SAFEGUARDS

⚠ *Caution : Read this page carefully to ensure safe operation.*

Please read all of the safety and operating instructions before operating this appliance. Adhere to all warnings on the appliance and in the instruction manual. Follow all the safety and operating instructions. These safety and operating instructions should be retained for future reference.

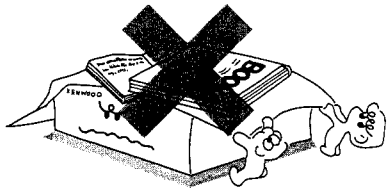
1. **Power sources** – The appliance should be connected to a power supply only of the type described in the instruction manual or as marked on the appliance. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For appliances intended to operate from battery power, or other sources, refer to the instruction manual.

2. **Power-cord protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.



3. **CAUTION – Polarization** – This appliance may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety future. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

4. **Ventilation** – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the appliance and to protect it from overheating, and these openings must not be blocked or covered. The appliance should be situated so that its location or position does not interfere with its proper ventilation.
   To maintain good ventilation, do not put records or a table-cloth on the appliance. Place the appliance at least 10 cm away from the walls.
   Do not use the appliance on a bed, sofa, rug or similar surface that may block the ventilation openings. This appliance should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

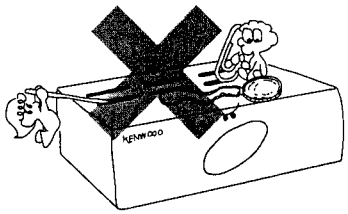


5. **Water and moisture** – The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

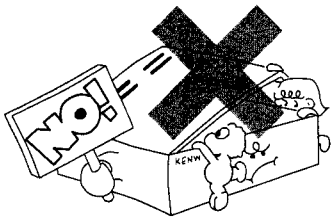
6. **Temperature** – The appliance may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F).

7. **Heat** – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

8. **Electric shock** – Care should be taken so that objects do not fall and liquid is not spilled into the enclosure through openings. If a metal objects, such as a hair pin or a needle, comes into contact with the inside of this appliance, a dangerous electric shock may result. For families with children, never permit children to put anything, especially metal, inside this appliance.



9. **Enclosure removal** – Never remove the enclosure. If the internal parts are touched accidentally, a serious electric shock might occur.



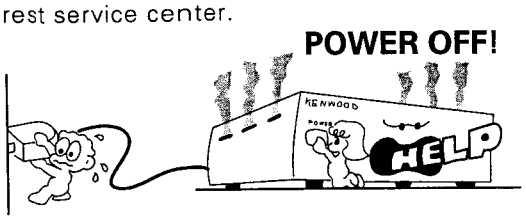
10. **Magnetic fields** – Keep the appliance away from sources of magnetic fields such as TV sets, speaker systems, radios, motorized toys or magnetized objects.

11. **Cleaning** – Unplug this appliance from the wall outlet before cleaning. Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzine, etc. to clean the cabinet. Use a clean dry cloth.

12. **Accessories** – Do not place this appliance on an unstable cart, stand, tripod, bracket, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the appliance. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

13. Lightning – For added protection for this appliance during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the appliance due to lightning and power-line surges.

14. Abnormal smell – If an abnormal smell or smoke is detected, immediately turn the power OFF and unplug the appliance from the wall outlet. Contact your dealer or nearest service center.



15. Damage requiring service – The appliance should be serviced by qualified service personnel when:

A. The power-supply cord or the plug has been damaged.

B. Objects have fallen, or liquid has been spilled into the appliance.

C. The appliance has been exposed to rain or water.

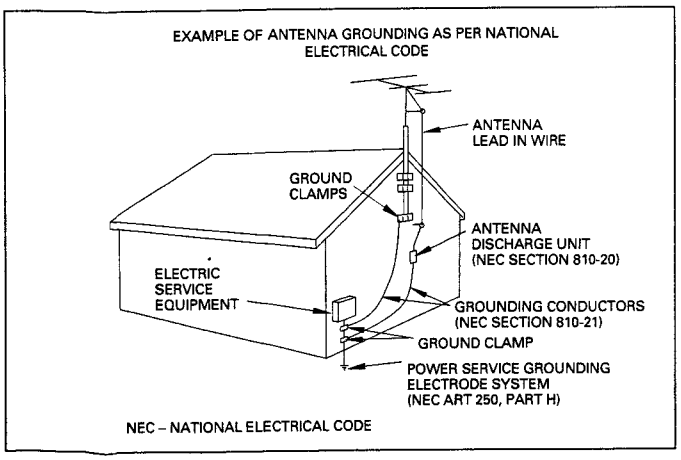
D. The appliance does not appear to operate normally by following the instruction manual. Adjust only those controls that are covered by the instruction manual as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to its normal operation.

E. The appliance has been dropped, or the enclosure damaged.

F. The appliance exhibits a marked change in performance.

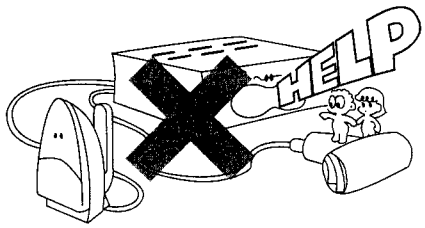
16. Servicing – The user should not attempt to service the appliance beyond that described in the instruction manual. All other servicing should be referred to qualified service personnel.

17. Outdoor antenna grounding – If an outside antenna is connected to the appliance, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Article 810 of the National Electrical Code ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.


EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE
ANTENNA LEAD IN WIRE
GROUND CLAMPS
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMP
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)
NEC – NATIONAL ELECTRICAL CODE

18. Power lines – An outside antenna system should not be located in the vicinity of overheated power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

19. AC outlets – Do not connect other audio equipment with a power consumption larger than that specified to the AC outlet on the rear panel. Never connect other electrical appliances, such as an iron or toaster, to it to prevent fire or electric shock.



20. Overloading – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

21. Attachment – Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.

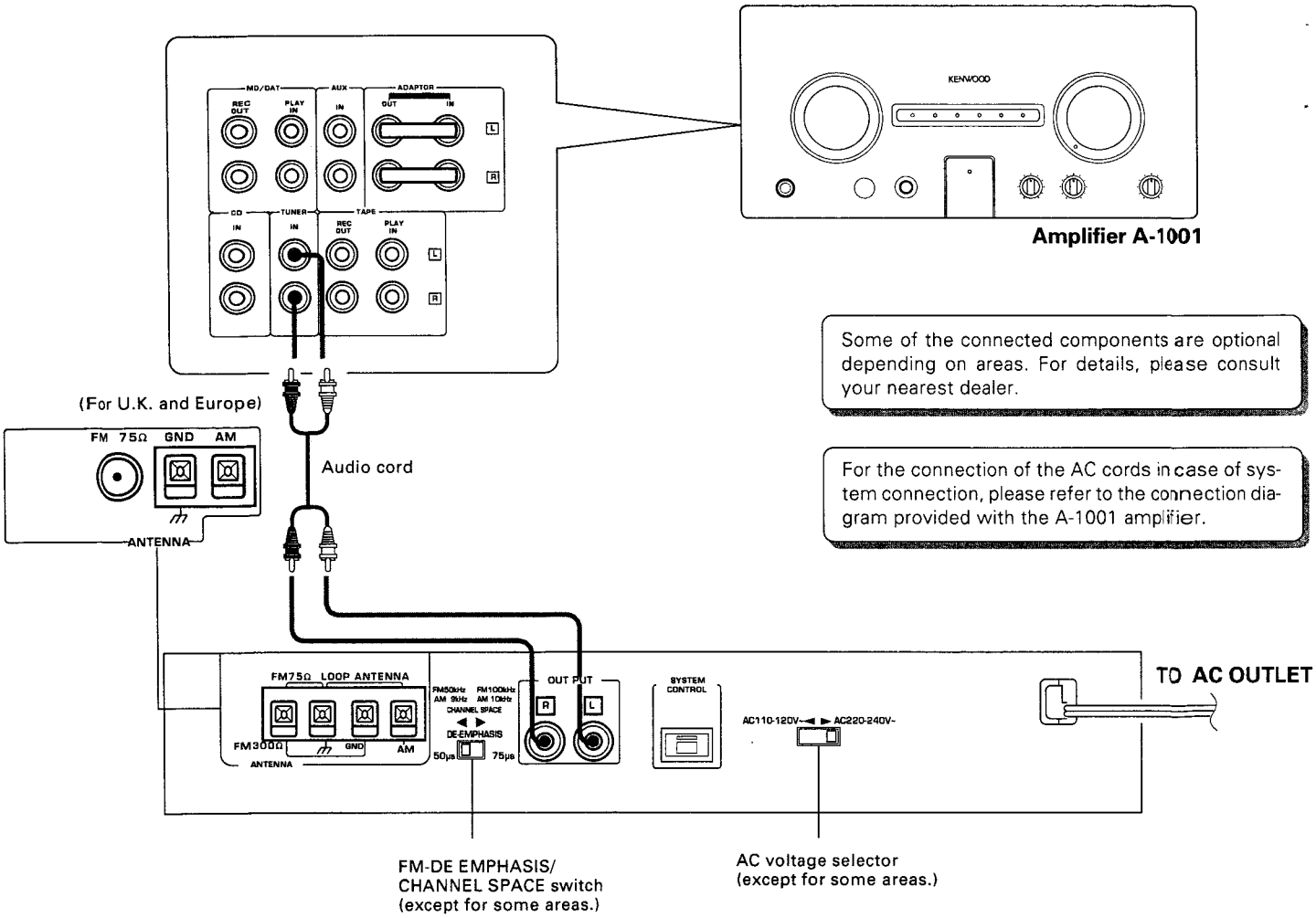
22. Replacement parts – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.

23. Safety check – Upon completion of any service or repairs to this appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operating condition.

Notes:
1. Item 3 is not required except for grounded or polarized equipment.
2. Item 17 and 18 are not required except for units provided with antenna terminals.
3. Item 17 complies with UL in the U.S.A.

System connections

Make connection as shown below. When connecting the related system components, refer also to the instruction manuals of the related components.
Do not plug in the power lead until all connections are completed.

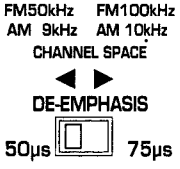


FM DE-EMPHASIS / CHANNEL SPACE SWITCH (Except for some areas)

The FM DE-EMPHASIS / CHANNEL SPACE switch on the rear panel is set to the correct setting that prevails in the area to which the unit is shipped. However, if the FM DE-EMPHASIS / CHANNEL SPACE setting is not matched to the area where the unit is to be used; for instance, when you move from area 1 to area 2 or vice versa, desired reception of AM / FM broadcasts is not expected. In this case, change the FM DE-EMPHASIS / CHANNEL SPACE setting in accordance with the area corresponding to the table. The FM DE-EMPHASIS is switched over at the same time.

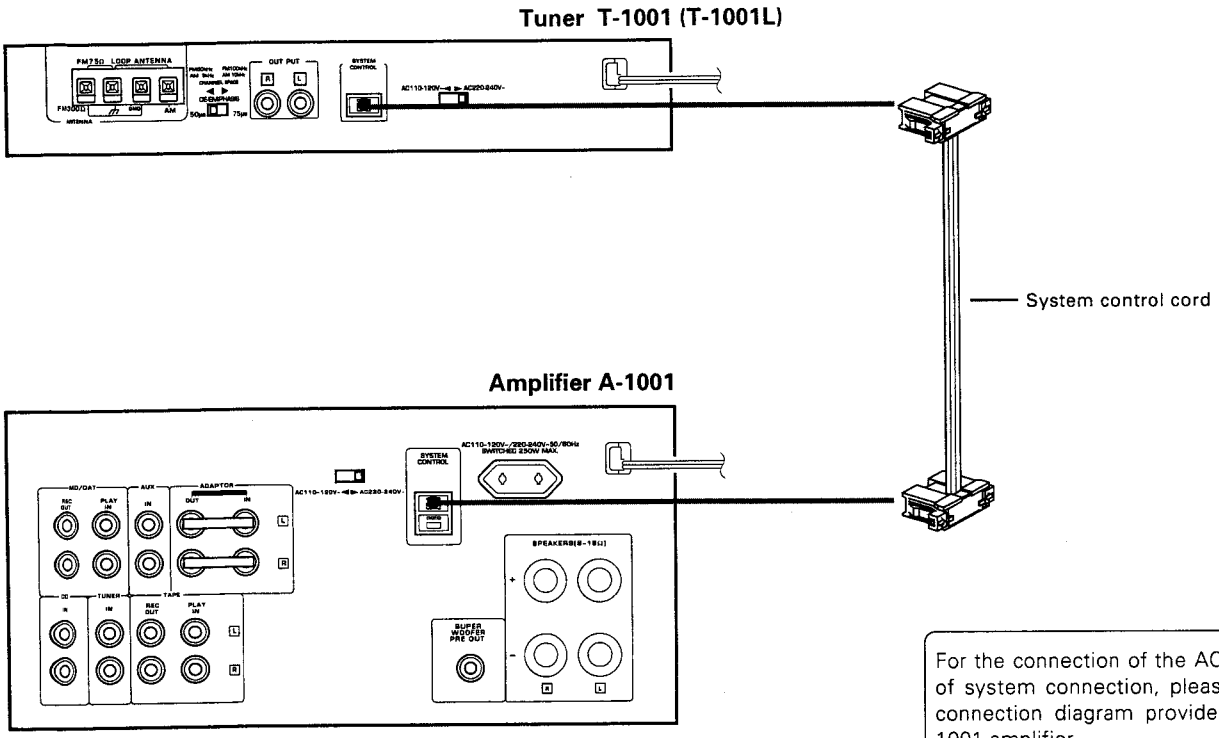
- When changing the setting of the FM DE-EMPHASIS / CHANNEL SPACE switch, first disconnect the power cord, then reset the channel space switch, connect the power cord again, and turn the power on.

	Area	CHANNEL SPACE freq.	FM DE-EMPHASIS
1	U.S.A., Canada, and South American countries	FM: 100kHz AM: 10kHz	75µs
2	Other countries	FM: 50kHz AM: 9kHz	50µs



Notes
1. Connect all cords firmly. If connections are loose, there could be loss of sound or noise produced.
2. When plugging and unplugging connection cords, be sure to first remove the power cord from the AC outlet. Plugging/unplugging connection cords without removal of the power cord can cause malfunctions or damage to the unit.

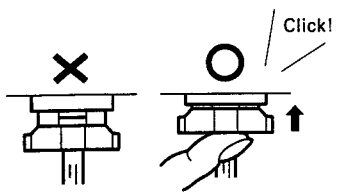
Connect the system control cords as shown in the diagram below.



For the connection of the AC cords in case of system connection, please refer to the connection diagram provided with the A-1001 amplifier.

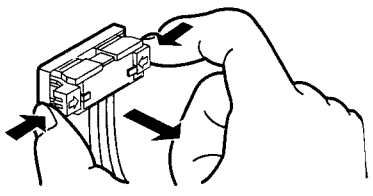
Connection of system control cord

Plugging the connector



Insert the plug straight into the connector until it locks.

Unplugging the connector



While pushing the two sides of connector in, pull it straight out.

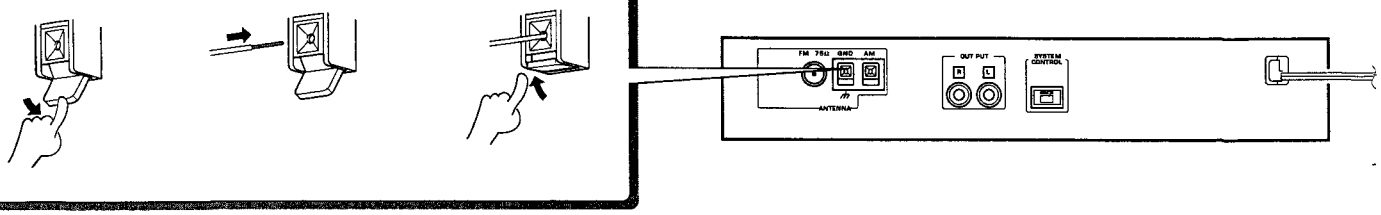
System operation

When the tuner is connected with the A-1001 amplifier through a system control cord, broadcast station preset operation and preset recall operation for receiving preset stations in sequence are possible from the remote control provided with the amplifier.

Also, the input selection on the amplifier can be changed from the tuner and the easy operation function in which the system components act according to the input selection made on the amplifier is available.

For details, read the instruction manual of the amplifier.

Connection method to each antenna terminal
① **Push lever.** ② **Insert cord.** ③ **Return lever.**



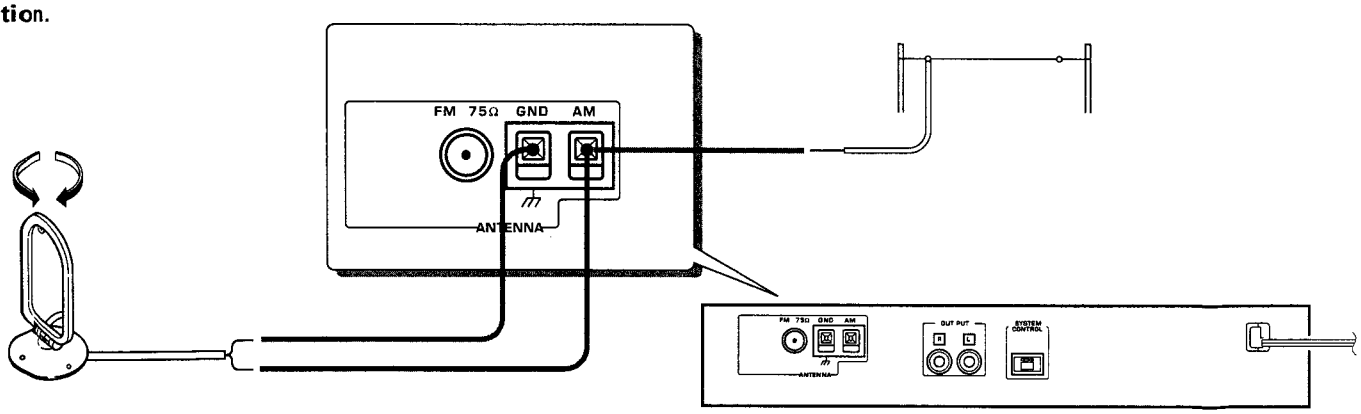
Connection of AM antenna

AM loop antenna connection

The supplied antenna is for indoor use. Place it as far as possible from the main system, TV set, speaker cords and power cord, and set it to a direction which provides the best reception.

AM outdoor antenna connection

If the reception is poor when the AM loop antenna is used, distribute a vinyl-coated wire of more than 6 meters outdoors, without disconnecting the loop antenna.



Connection of FM antenna

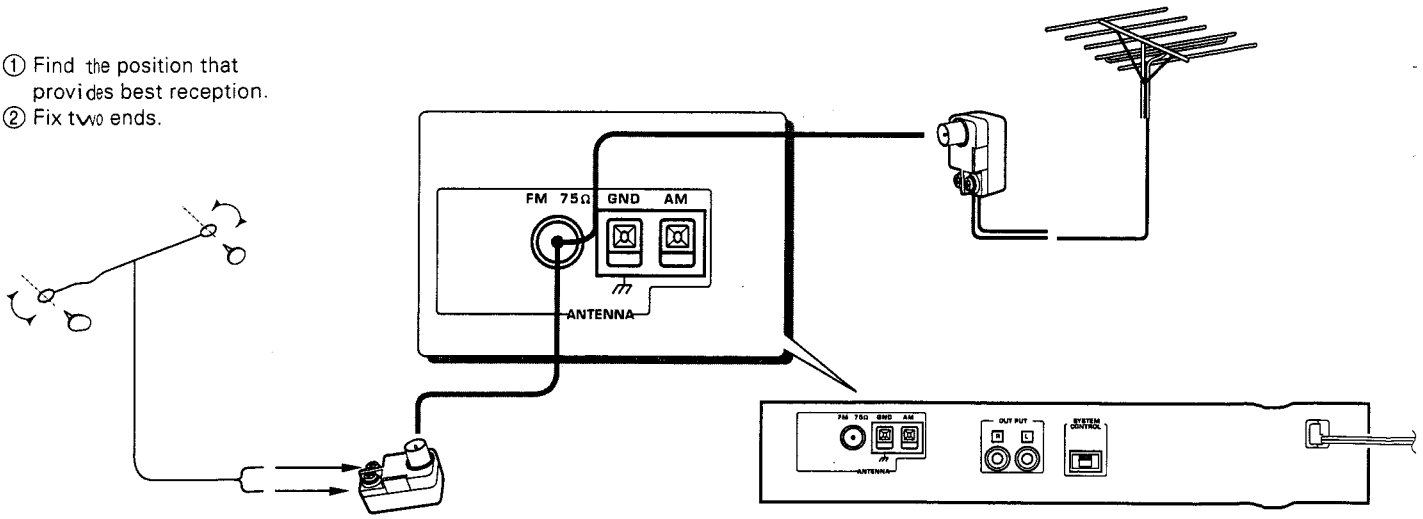
FM indoor antenna connection

The supplied antenna is for indoor use. For stable reception, remove the indoor antenna after installing an outdoor antenna as soon as possible.

FM outdoor antenna connection

It is recommended to install an exclusive FM outdoor antenna to capture FM broadcast with high sound quality. Use a coaxial cable for the connection between the outdoor antenna and FM ANTENNA terminal on the rear panel. For the connection between the coaxial cable and FM ANTENNA terminal, please refer to the illustration.

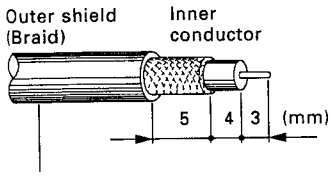
① Find the position that provides best reception.
② Fix two ends.



Connect to the screw terminals.

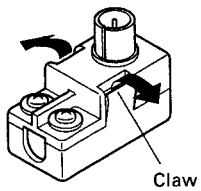
75 Ω coaxial cable connection (for U.K. and Europe)

① Arrange the coaxial cable as illustrated.

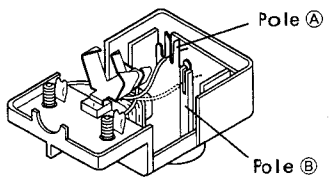


RG-6 (5C-2V) or RG-59 (3C-2V)

② Open the antenna adaptor.
Open the claws with the fingers to release the lock and pull out the cover.

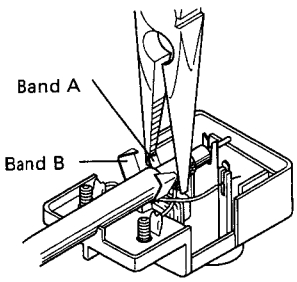


③ Remove the inner conductor from the groove of pole Ⓐ and insert it in the groove of pole Ⓑ .

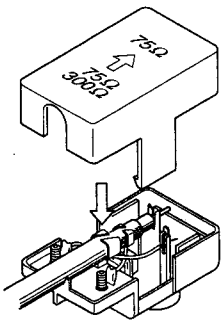


When using a 300Ω feeder cable, insert the conductor into the groove of pole A.

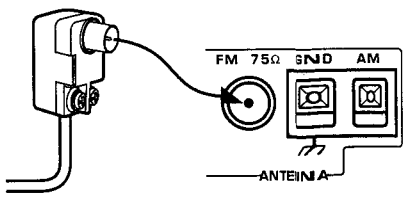
④ Insert into the slit on the clip. Fasten the bands A and B. using a pair of pliers.



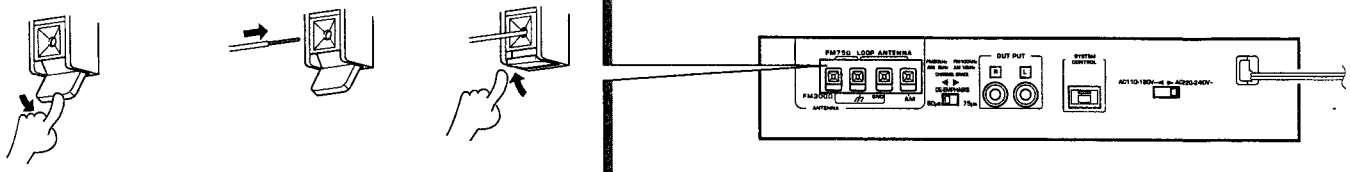
⑤ Close the cover.



⑥ Connect the adaptor to the antenna terminal.



Connection method to each antenna terminal
① **Push lever.** ② **Insert cord.** ③ **Return lever.**



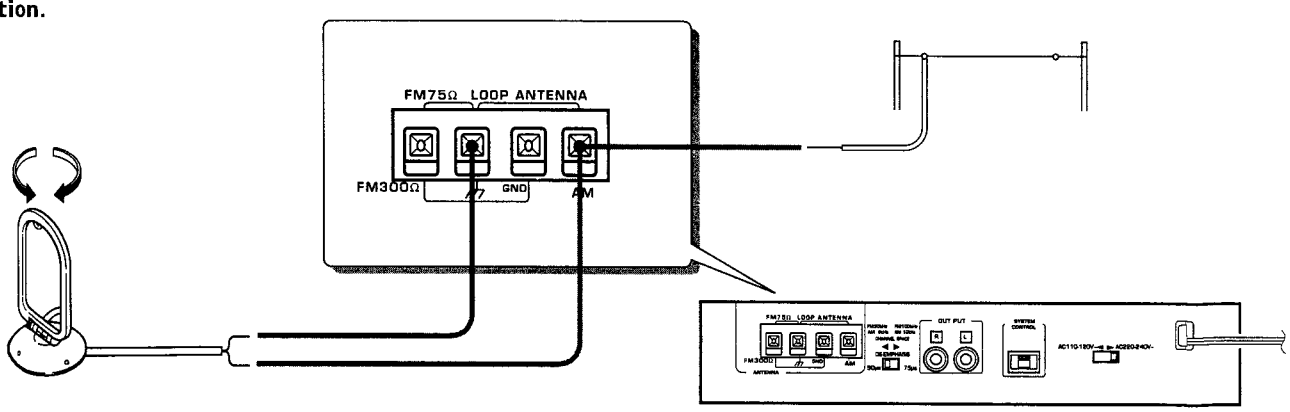
Connection of AM antenna

AM loop antenna connection

The supplied antenna is for indoor use. Place it as far as possible from the main system, TV set, speaker cords and power cord, and set it to a direction which provides the best reception.

AM outdoor antenna connection

If the reception is poor when the AM loop antenna is used, distribute a vinyl-coated wire of more than 6 meters outdoors, without disconnecting the loop antenna.



Connection of FM antenna

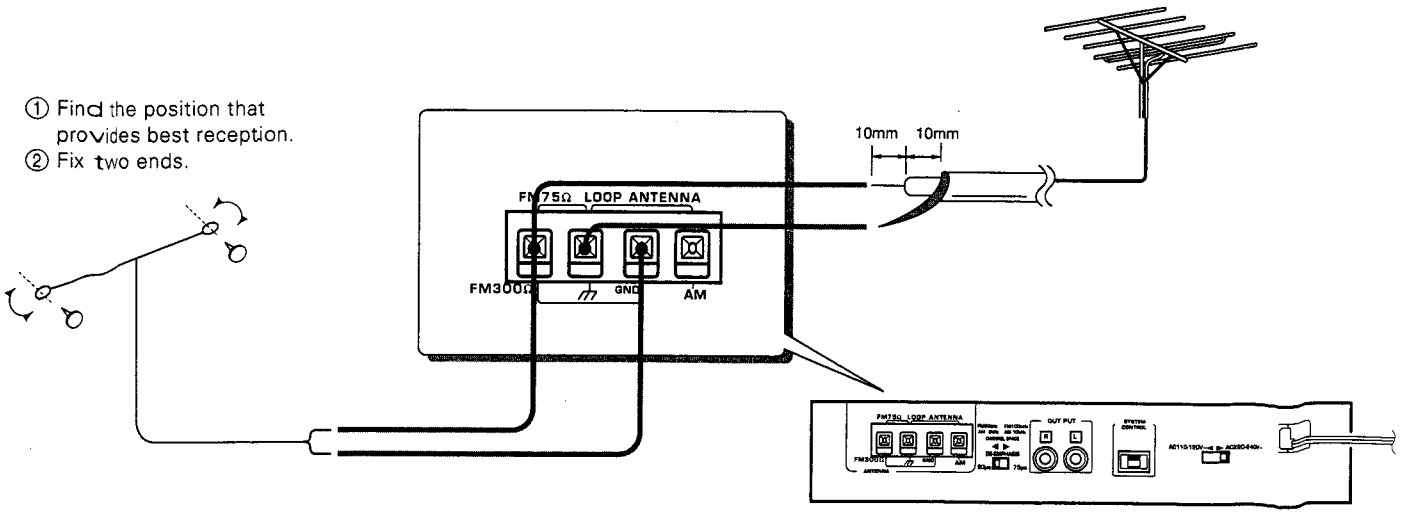
FM indoor antenna connection

The supplied antenna is for indoor use. For stable reception, remove the indoor antenna after installing an outdoor antenna as soon as possible.

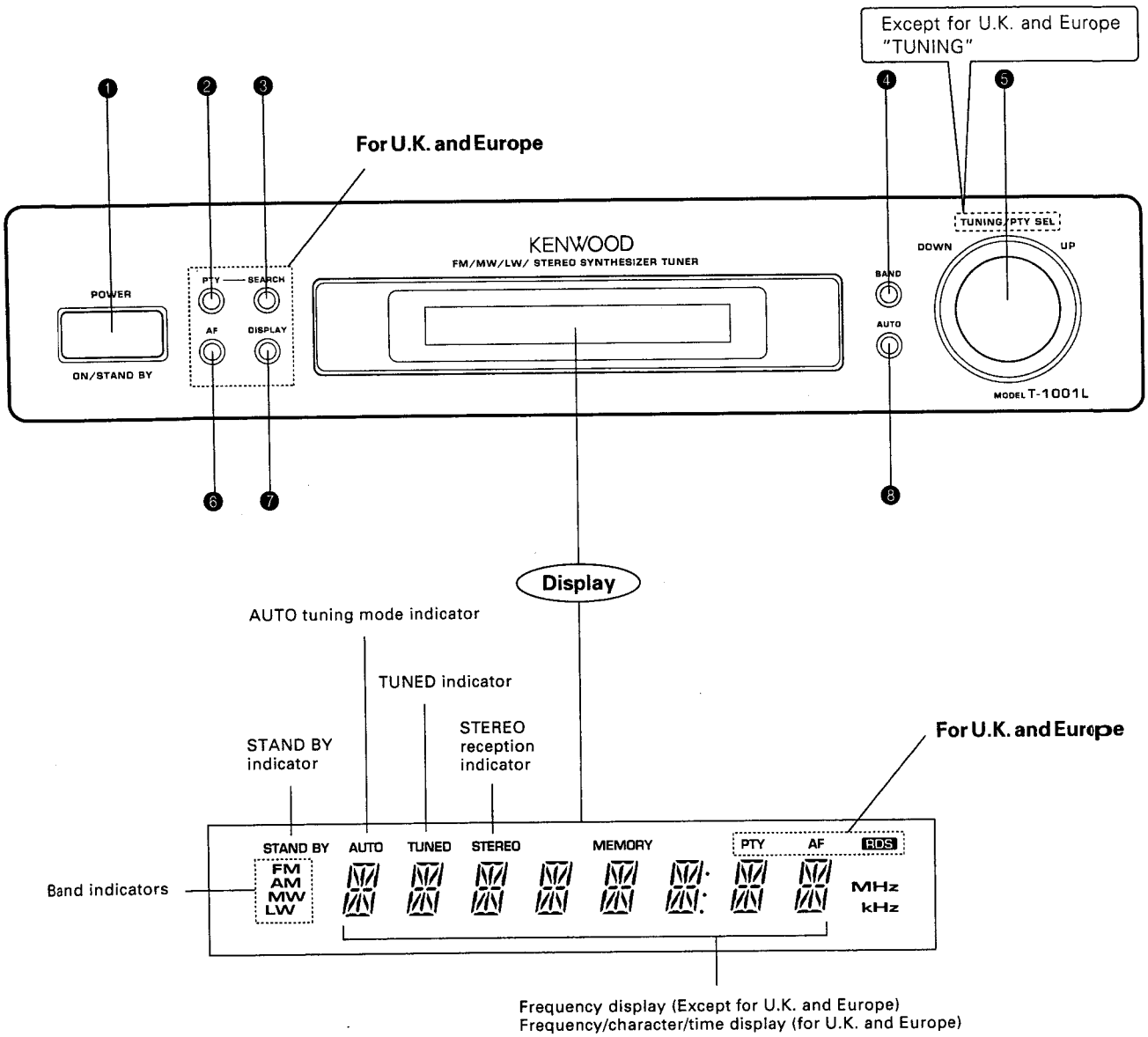
FM outdoor antenna connection

It is recommended to install an exclusive FM outdoor antenna to capture FM broadcast with high sound quality. Use a coaxial cable for the connection between the outdoor antenna and FM ANTENNA terminal on the rear panel. For the connection between the coaxial cable and FM ANTENNA terminal, please refer to the illustration.

① Find the position that provides best reception.
② Fix two ends.



Controls and indicators



❶ POWER ON/STAND BY key

Each press switches the power ON and STAND BY alternately.

❷ PTY key (for U.K. and Europe) ➡ P. 15

❸ SEARCH key (for U.K. and Europe) ➡ P. 15

❹ BAND key

Press to select the tuning band.
FM/AM
FM/MW/LW (for U.K. and Europe). ➡ P. 12

❺ TUNING control [TUNING/PTY SEL control (for U.K. and Europe)]

Rotate to select the station to be received. ➡ P. 12
For U.K. and Europe:
This control is also used to select the desired programme type of RDS. ➡ P. 15

❻ AF key (for U.K. and Europe) ➡ P. 16

❼ DISPLAY key (for U.K. and Europe) ➡ P. 14

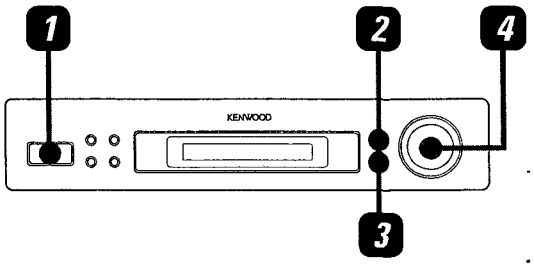
❽ AUTO key

Each press switches the tuning mode to AUTO and manual alternately. ➡ P. 12

Standby mode of POWER switch

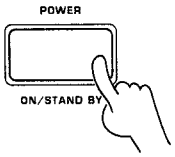
When the power cord of this unit is plugged into an AC outlet, the STAND BY indicator lights when the power is OFF. This is because, even when the power is set to OFF, a small amount of power is supplied to the unit to back up the memory. This status is called the standby mode of the unit.

Broadcast reception



Receiving broadcast station

1 Switch the power ON.



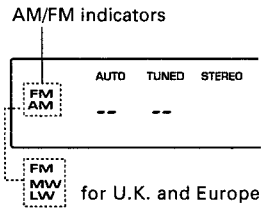
2 Select FM or AM (MW, LW).

Each press alternates the band.

① **FM**
② **AM**

For U.K. and Europe

① **FM**
② **MW**
③ **LW**



3 Select the tuning mode.

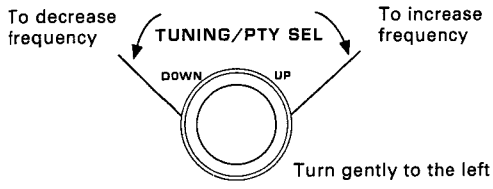
Each press alternates the mode.

① **AUTO lit (Auto tuning)**
② **AUTO not lit (Manual tuning)**

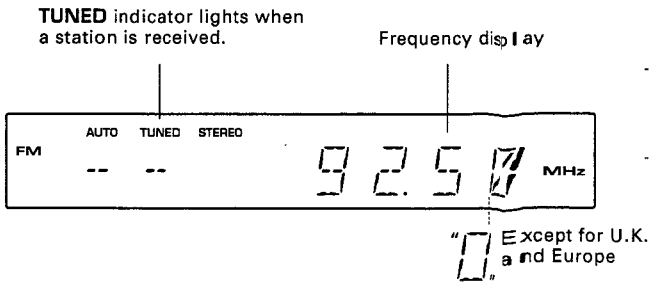
- Normally, use the **AUTO** (Auto tuning) mode.

Use the manual tuning mode in case the reception is noisy due to weak waves. (In the manual mode, stereo broadcasts are received in monaural.)

4 Select a station.

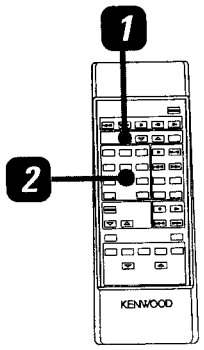


Gently rotate the control clockwise (or counterclockwise) to select a station with higher (or lower) frequency.



Auto tuning: Receives the next station automatically.
Manual tuning: If you turn and hold the TUNING/PTY SEL knob to the left or right, the frequencies change continously.

When the tuner is connected with the A-1001 amplifier through a system control cord, up to 20 broadcast stations can be stored as preset stations with a preset number assigned to each of them using the remote control unit provided with the amplifier. Once stations are preset, they can be received by simply specifying their numbers.



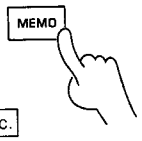
Remote control unit provided with the amplifier

Make preparation.

➡ P. 12

- Receive a station to be stored in preset memory.

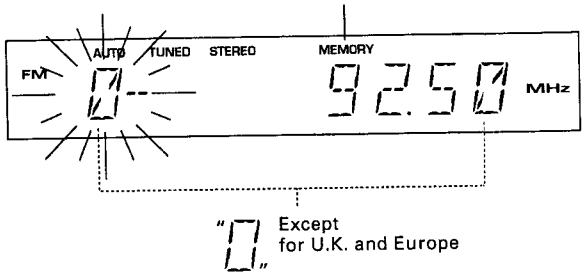
1 Press the MEMO key during reception.



Go to step 2 within 5 sec.

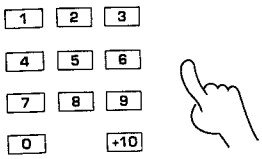
If more than 5 seconds have elapsed, press the MEMO key again.

Lights (for 5 sec.)



"0" Except for U.K. and Europe

2 Assign a preset number in the range from 1 to 20.



Press the numeric keys as follows...
To store the station in preset "15": +10 5
To store the station in preset "20": +10 +10 0

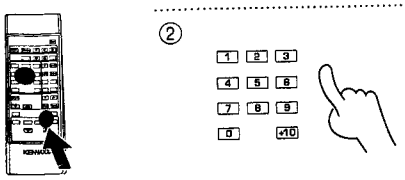
- If the preset number assigned to a station has already been assigned to another, the new memory content replaces the old content.

Recalling a preset station

Entering the preset number of the desired station

① Select the **TUNER** input with the INPUT SELECTOR key.

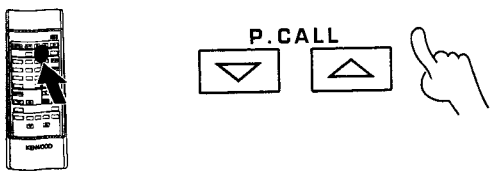
②



Press the numeric keys as follows...
To recall the station in preset "15": +10 5
To recall the station in preset "20": +10 +10 0

Receiving preset stations in sequence (Preset call)

Press the P.CALL key.



- Every time the key is pressed, the preset stations are switched over as follows:

When △ is pressed..... 1 → 2 → 3 .....18 → 19 → 20

When ▽ is pressed..... 1 ← 2 ← 3 .....18 ← 19 ← 20

When a key is held depressed . . . . . Preset stations will be skipped at an interval of about 0.5 second.

RDS (Radio Data System) (For U.K. and Europe)

RDS is a system which transmits useful information (digital data) for FM broadcasts together with the broadcast signal. Tuners and receivers designed for RDS reception can extract the information from the broadcast signal for use with various functions such as automatic display of the station name.

This unit is equipped with the following functions utilizing RDS data:

(In some areas, some functions cannot be activated and some function names are differ as follows.)

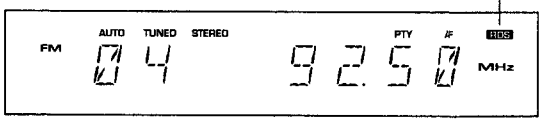
PTY (Program Type Identification) Search : (See page 15.)
The tuner automatically searches for a station which is currently broadcasting a specified program type (genre).

AF (Alternative Frequencies) Search : (See page 16.)
When a weak signal is received, the tuner automatically searches for alternative frequencies broadcasting the same program and selects the best signal.

PS (Program Service Name) Display : (refer to the table below.) When an RDS broadcast is received, the station name is automatically displayed.

CT (Clock Time) Display : (refer to the table below.)
Some RDS stations transmit clock data along with the broadcast signal.
When the CT display is selected with the **DISPLAY** key, The clock data is not displayed if it is not received.

The **RDS** indicator lights when an RDS broadcast (signal) is received.



DISPLAY key

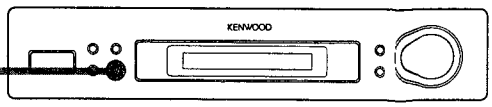
Pressing the DISPLAY key changes the display contents. The display returns to the original display after about 5 seconds.

DISPLAY

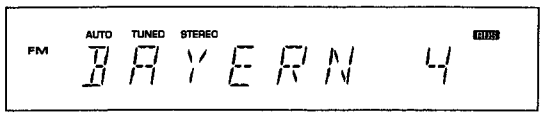
Display mode priority ranking

When an RDS broadcast is received : ① → ② → ③

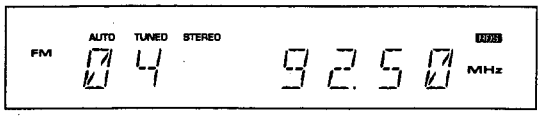
When a non-RDS broadcast is received : ②



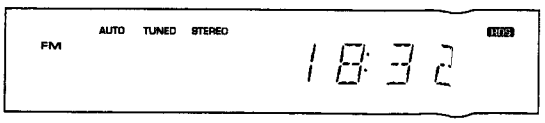
① **PS (Program Service Name) Display :**
When an RDS broadcast is received, the station name is automatically displayed.
If no PS data is transmitted, the display changes to the ② frequency display.



② **Frequency Display :**
The frequency of the current station is displayed.



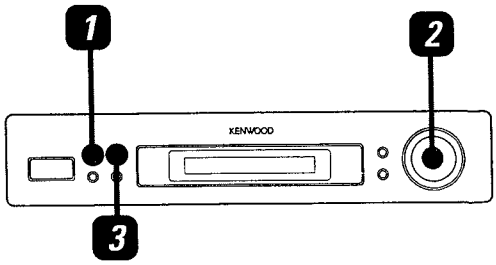
③ **CT (Clock Time) Display :**
When an RDS broadcast is received, the hour and minute are shown on the display.



If the clock data is not received, the PS display and frequency display appears alternately.

PTY (Program Type Identification) Search (for U.K. and Europe)

By specifying the type of program (genre) you want to listen to, the tuner automatically searches for a station which is currently broadcasting a program of the the specified type.



Make preparation.

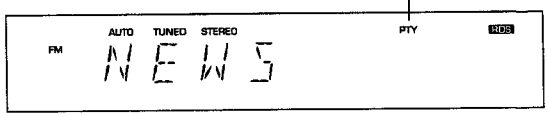
- Set the broadcast band to **FM**.

Searching for a desired program type

1 *Select the PTY select mode.*

PTY

lights.

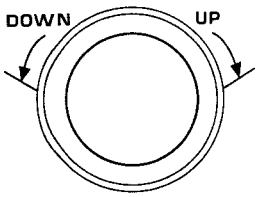


When an RDS broadcast is received, the program type is shown on the display. If no PTY data is available or if the station is not an RDS station, **"NONE"** is displayed.

2 *Select the desired program type.*

TUNING/PTY SEL

DOWN UP



Select while "PTY" is lit.

Turn the **TUNING/PTY SEL** knob to sequentially select from the fifteen available program types. Turn the knob slightly to the left or right, then release the knob when the desired program type is displayed.

	Program Type Name	Display
DOWN	Pop Music	POP M
	Rock Music	ROCK M
	* M.O.R. Music	M.O.R. M
	Light Classical	LIGHT M
	Serious Classical	CLASSICS
	Other Music	OTHER M
	News	NEWS
	Current Affairs	AFFAIRS
	Information	INFO
	Sport	SPORT
	Education	EDUCATE
	Drama	DRAMA
UP	Culture	CULTURE
	Science	SCIENCE
	Varied	VARIED

*M.O.R. Music (Middle of the Road Music)

3 *Start the search.*

SEARCH

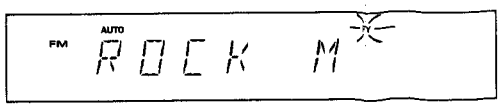
Press while "PTY" is lit.

Display while the tuner is searching.

Program type name display.

blinks

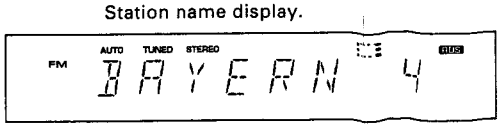
When searching for a Rock Music broadcast.



When a station is received.

Goes out.

Station name display.



To change to a different program type:

Repeat steps 1 ~ 3.

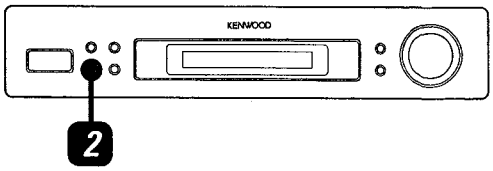
- No sound is heard while **"PTY"** is blinking.
- If a program of the desired type cannot be found, **"NO PROG"** is displayed, then after several seconds the display returns to the original display.
- If a program of the desired type is found, that program is received and the program type name display changes temporarily to the frequency display and then to the station name display.

AF (Alternative Frequencies) Search (for U.K. and Europe)

If more than one FM station is broadcasting the same program, this function will automatically select the station offering the strongest signal or the least interference. (The AF feature will not function if the RDS and AF indicator is not lit.)

Make preparation.

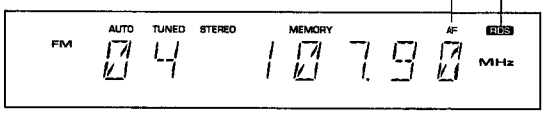
- Select the FM band.



Searching the station with best condition

1 Receive an RDS broadcast station.

Check that the indicator is lit.

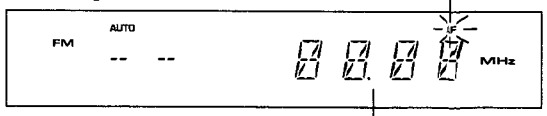


- Tune in the desired station and verify that the RDS indicator lights.
- After a short time, the "AF" indicator lights.
  After verifying that the "AF" indicator is lit, proceed to the next step.

2 Start the search.

Display while the tuner is searching.

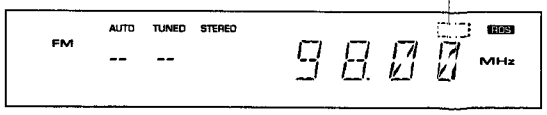
blinks.



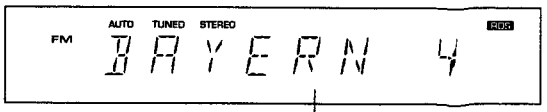
The frequency changes continuously.

When a station is received.

Goes out.



After about 3 seconds



Station name display

- Scanning (station searching) starts.
- No sound is heard while searching is being carried out.

AF (Alternative Frequencies) Feature

- With some stations, it may take some time for the **"AF"** indicator to light.
- To obtain the best reception conditions, we recommend waiting a few minutes after the **"AF"** indicator lights before pressing the **AF** key.
- It is useful to use the number keys to preset (memorize) stations received with this AF function. (See page 13.)
- The selected frequency may vary depending on the signal conditions.
- There are some RDS stations which do not support this AF function. For such stations, the **"AF"** indicator does not light.

In case of difficulty

Radio stations cannot be received.	• No antenna is connected. • The broadcast band is not set properly. • The frequency of the desired station is not tuned.	• Connect an antenna. • Set the broadcast band properly. ➡ P. 12 • Tune the frequency of the desired station.
Interference.	• Noise due to ignition noise of an automobile. • Noise due to an influence from an electric appliance. • Noise due to a nearby TV set.	• Install the outdoor antenna apart from the road. • Turn off the power of the appliance. • Install the system more apart from the TV set.
A station which was preset cannot be received by pressing the corresponding numeric key. **(Remote control unit provided with the amplifier)**	• The preset station belongs to a frequency that cannot be received. • The preset memory was cleared because the power cord had been unplugged for a long period of time. • The TUNER input is not selected on the amplifier (A-1001).	• Preset a station with a receivable frequency. • Preset the station again. ➡ P. 13 • Select the TUNER input.

Memory back-up

Once the preset memory has been stored, it will be held for about 3 days even when the power cord is unplugged.

Last channel memory

When the power is turned ON or when the receiving band (AM (MW/LW) or FM) is changed, the last station which was received before will be received again.

Notes 1. Since this system uses microcomputers, they may not operate normally due to interfering noise, etc. In such a case, unplug the power cord from the power outlet and, insert the power cord into the power outlet again.

2. Do not use contact cleaners because it could cause a malfunction. Be specially careful against contact cleaners containing oil, for they may deform the plastic components.

Specifications

⚠ Caution : Read this page carefully to ensure safe operation.

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (DIN at 75Ω)
MONO ..... 1.0 µV / 11.2 dBf
Signal to noise ratio (DIN weighted at 1 kHz)
MONO ..... 65 dB (65.2 dBf input)
STEREO ..... 58 dB (65.2 dBf input)
Stereo separation (DIN)
1 kHz ..... 40 dB
Selectivity (DIN ±300 kHz) ..... 64 dB
Frequency response (30 Hz ~ 15 kHz) ..... + 0.5 dB, –3.0 dB
Output level / impedance
(FM at 1 kHz, 75 kHz dev) ..... 600 mV / 3.3 kΩ

MW tuner section

Tuning frequency range ..... 531 kHz ~ 1,602 kHz
Usable sensitivity ..... 12 µV / (500 µV/m)
Signal to noise ratio (at 30% mod. 1 mV input) ..... 46 dB
Output level / impedance
(at 30% mod. 1mV input) ..... 180 mV / 3.3 kΩ

LW tuner section

Tuning frequency range ..... 153 kHz ~ 281 kHz
Usable sensitivity ..... 22 µV
Signal to noise ratio (at 30 % mod. 1 mV input) ..... 45 dB
Output level / impedance
(at 30 % mod. 1 mV input) ..... 180 mV / 3.3 kΩ

General

Power consumption ..... 10 W
Dimensions ..... W : 270 mm (10 - 5/8")
H : 60 mm (2 - 3/8")
D : 329 mm (12 - 15/16")
Weight (Net) ..... 3 kg (6.6 lb)

Note:
The unit's power supply is secondarily connected. Note following.
The unit is not completely disconnected from the mains as long as the power cord is connected to a wall outlet.

Observera:
Apparatens strömförsörjning kopplas från sekundärt. V.g. ge akt på följande.
Apparatens frånkopplas inte helt och hållet från strömnätet medan apparatens nätsladd är ansluten til växelströmsuttaget.

Huom:
Virta yksikköön on kytketty pois sekundaaripuolelta. Huomioi seuraava.
Tämä yksikkö ei ole kokonaan kypketty pois pää virranjakajasta kun pää katkaisin on liitettynä virtatiiriin.

Bemærk:
Strømmen til apparatet afbrydes på den sekundære side. Vear opmærksom på følgende.
Denne enhed er ikke fullstendig koblet fra lysnettet så lenge stikket er tilsluttet stikkontakten.

Anmerkning:
Strømmen til apparatet er slått av på sekundærsiden: Vær oppmerksom på det følgende.
Dette apparatet koples ikke fullstendig fra nettet så lenge støpselet står i en stikkontakt, selv om strømbryteren settes i av–stilling.

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (MONO at 75 Ω) ..... 1.2 μV / 13.2 dBf
Signal to noise ratio (at 1 kHz)
MONO ..... 75 dB (65 dBf input)
STEREO ..... 68 dB (65 dBf input)
Stereo separation
1 kHz ..... 40 dB
Selectivity (±400 kHz) ..... 50 dB
Frequency response (30 Hz ~ 15 kHz) ..... +0.5 dB, −3.0 dB
Output level / impedance
(at 1 kHz, 75 kHz dev) ..... 600 mV / 3.3 kΩ

AM tuner section

Tuning frequency range
9 kHz step ..... 531 kHz ~ 1,602 kHz
10 kHz step ..... 530 kHz ~ 1,610 kHz
Usable sensitivity ..... 12 μV / (500 μV/m)
Signal to noise ratio (at 30 % mod. 1 mV input) ..... 48 dB
Output level / impedance
(at 30 % mod. 1 mV input) ..... 180 mV / 3.3 kΩ

General

Power consumption 10W
Dimensions ..... W : 270 mm (10 - 5/8")
H : 60 mm (2 - 3/8")
D : 329 mm (12 - 15/16")
Weight (Net) ..... 3 kg (6.6 lb)

Note KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.